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NOTICE OF ALLOWANCE AND FEE(S) DUE

24267

7590

10/14/2010

CESARI AND MCKENNA, LLP 88 BLACK FALCON AVENUE BOSTON, MA 02210 EXAMINER

MORRISON, JAY A

ART UNIT

PAPER NUMBER

2168 DATE MAILED: 10/14/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/776.057	02/11/2004	Daniel Ting	112056-0139U	2127

TITLE OF INVENTION: SYSTEM AND METHOD FOR COMPARING DATA SETS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	01/14/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificate	correspondence including below or directed oth tions	g the Patent, advance or erwise in Block 1, by (a	rders and notification of nation of nation of nation of national specifying a new corresponding to the national	naintenance fees will pondence address; a	I be mailed to the curren nd/or (b) indicating a sep	t correspondence address as parate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				s) Transmittal. This ers. Each additional p	certificate cannot be used.	or domestic mailings of the for any other accompanying ent or formal drawing, must
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CESARI AND 88 BLACK FAL BOSTON, MA (I he State addr trans	reby certify that this es Postal Service wit essed to the Mail S emitted to the USPTC	Ficate of Mailing or Tran Fee(s) Transmittal is bein th sufficient postage for find Stop ISSUE FEE address () (571) 273-2885, on the	smission g deposited with the United rst class mail in an envelope above, or being facsimile date indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/776,057	02/11/2004	<u>, </u>	Daniel Ting	L	112056-0139U	2127
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I		
nonprovisional	NO	\$1510	\$0	\$0	\$1510	01/14/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
MORRISO	N, JAY A	2168	707-008000			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA	Indication form ed. Use of a Customer TO BE PRINTED ON The field below, no assignee	(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attornisted, no name will be THE PATENT (print or type data will appear on the part of the	rely, e firm (having as a m gent) and the names meys or agents. If no printed. e) atent. If an assignee	nember a 2of up to o name is 3	document has been filed for
(A) NAME OF ASSIC	GNEE		(B) RESIDENCE: (CITY	and STATE OR CO	•	roup entity 🚨 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			o. Payment of Fee(s): (Plea	d. Form PTO-2038 i	s attached.	
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	••		ENTITY status. See 37 C	
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requ records of the United Star	ured) will not be accepted tes Patent and Trademark	d trom anyone other than the Office.	ne applicant; a registe	ered attorney or agent; or t	he assignee or other party in
Authorized Signature				Date		
Typed or printed name This collection of information is required by 37 CFR 1.311. The information				-		
This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450, Alexandria. V	ation is required by 37 C tiality is governed by 35 I application form to the ions for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and Tr D THIS ADDRESS.	public which is to file (ar nutes to complete, includi ments on the amount of t rademark Office, U.S. Dep SEND TO: Commissioner	nd by the USPTO to process) ng gathering, preparing, and ime you require to complete bartment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/776,057	C	02/11/2004	Daniel Ting	112056-0139U 2127		
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CESARI AND MCKENNA, LLP			MORRISO	N, JAY A		
88 BLACK FALO		ENUE		ART UNIT	PAPER NUMBER	
BOSTON, MA 02210				2168		
			DATE MAILED: 10/14/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/776,057	TING ET AL.	
Notice of Allowability	Examiner	Art Unit	
	JAY A. MORRISON	2168	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in the or other appropriate communication. This application is sub-	is application. If not included cation will be mailed in due course	
1. ☑ This communication is responsive to <u>8/31/2010</u> .			
2. The allowed claim(s) is/are <u>1-11,17-34 and 36-41</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All _ b) ☐ Some* c) ☐ None of the: 		f).	
 Certified copies of the priority documents have 	e been received.		
Certified copies of the priority documents have	been received in Application I	No	
Copies of the certified copies of the priority do	cuments have been received ir	this national stage application fro	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirem	nents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		,,	
(b) ☐ including changes required by the attached Examiner's		the Office action of	
Paper No./Mail Date	o, unonamone, comment or in		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ne
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Infor	mal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sum		
_ ,	Paper No./Ma	il Date	
3. Information Disclosure Statements (PTO/SB/08),	7. 🔲 Examiner's An	nendment/Comment	
Paper No./Mail Date 4.	8. 🛛 Examiner's St	atement of Reasons for Allowance	е
	9. 🗌 Other		
/Jay A Morrison/			
Primary Examiner, Art Unit 2168			

DETAILED ACTION

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-11, 17-34 and 36-41 are allowable over the prior art of record. The closest prior art of record Heckel, teaches that items in an array are marked from removal when there is a match, however it fails to teach that that the items are actually physically removed whenever there is a match as claimed by the Applicant. The reasons for allowance of these claims are that the prior art of record neither anticipates, nor renders obvious the recited combination as a whole, including the limitations being indicated in independent claim 1 as "removing, in response to the match between the hash value of the selected entry and the hash value of the entry in the hash table, the hash value of the entry from the hash table", in claim 17 as "means for removing, in response to the match between the hash value of the selected entry and the hash value of the entry in the hash table, the hash value of the entry from the hash table", in claim 19 as "program instructions that remove, in response to the match between the hash value of the selected entry and the hash value of the entry in the hash table, the hash value of the entry from the hash table", in claim 20 as "removing, in response to locating the hash value entry from the second data set in the hash table, the hash value entry from the hash table", in claim 21 as "removing, in response to determining that the hash value of the second data set is identical to the hashed value in the hash table, the identical hashed value from the hash table", in claim 22 as "removing from the hash

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table, in response to determining that the hashed value of the selected entry of the second data set is in the hash table, the hashed value of the selected entry of the second data set", in claim 32 as "remove from the hash table any hash value which matches any hash value of the source directory and the destination directory", in claim 36 as "remove any entry from the hash table which matches any hash value of the destination directory", and in claim 37 as "removing from the hash table, in response to determining that the hashed value of the selected entry of the second data set is in the hash table, the hashed value of the selected entry of the second data set".

Dependent claims 1, 17, 20-22, 32 and 37 are allowable at least for the reasons recited above including all the limitations of the allowable independent base claim upon which they depend.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay A. Morrison whose telephone number is (571) 272-7112. The examiner can normally be reached on M-F 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jay A Morrison/ Primary Examiner, Art Unit 2168

Jay Morrison TC2100